

**Amendments to the Specification:**

Please insert a paragraph indent that begins the third paragraph on page 9, line 21, as follows:

A1  
-- \_\_\_\_ The serving GPRS support node, in one embodiment of the invention, transmits the SMS message in an IP protocol to the base station for delivery to the mobile terminal. In an alternate embodiment of the invention, the SGSN removes the IP headers to place the SMS message into a traditional SMS form for transmission through the logical link control (LLC) protocol layer. Thus, the present invention facilitates the use of the Internet for delivery of SMS messages between a serving GPRS node and a GPRS message center in one of two different paths using one of three different forms or protocols. --

Please replace the second paragraph that begins on page 14, line 20, as follows:

A2  
-- Thus, as may be seen, a GGSN 224 includes an IP network port 228 having an address that is reserved for receiving SMS messages in an IP format from a message center 204. An IP port ~~206A-204A~~ within message center 204 is coupled to a data packet network comprising multiple communication paths and routers. At least one of the routers within the data packet network is coupled to an IP port 228 within gateway GPRS support node (GGSN) 224. --

Please replace the first paragraph that begins on page 16, line 10, as follows:

A3  
-- Continuing to examine FIG. 2, the operation of network 200 for delivering a short message service message from message center 204 to mobile terminal 220 is as follows. IP module ~~206A-204A~~ communicates with SMS module ~~206B-204B~~ to determine that the message center 204 has a short message service message that needs transmitting to mobile terminal 220 by way of a data packet network. IP module ~~206A-204A~~, responsive to determining the same, places IP header information around an SMS message 236 that is to be transmitted through network 200. Additionally, IP module ~~206A-204A~~ converts the SMS message 236 into an IP format (data packet format) for transmission through network 200. Thereafter, SMS message 236 is transmitted from an IP port ~~206A-204A~~ over an IP network to IP network port 228 of GGSN 224. IP port ~~206A-204A~~ specifically assigns address information to the packets that form the SMS message 236 to cause those packets to be routed directly to IP network port 228. As is understood by those skilled in the art, SMS message 236 may actually comprise a plurality of data packets and may actually be transmitted over a plurality of IP network lines to the specific address that causes them to be received at IP network port 228. The representation of one SMS message 236 being transmitted over one line between message center 204 and GGSN 224 is for the sake of simplicity.

Please replace the first paragraph that begins on page 23, line 6. This change is to add a period at the end of the sentence on line 23 of page 23 after "(step 412)":

A4  
-- FIG. 4 is a flow chart illustrating a method for delivering SMS messages through a GPRS network according to one embodiment of the present invention. The following method of FIG. 4 is illustrated with respect to FIG. 2 for exemplary purposes. A GPRS message center 204 transmits an SMS message 236 to a gateway GPRS support node 224 using a packet protocol to a specified packet port defined within the gateway GPRS support node 224 (step 404). As has been described previously, the gateway GPRS support node 224 defines a specific port address that is exclusively for receiving SMS messages from a GPRS message center 204. Thereafter, within the gateway GPRS support node 224, an SMSP 240 processes the received SMS message 236 (step 408). As a part of processing the received SMS message 236, the SMSP 240 determines if the destination mobile terminal 220 to which the SMS message 236 is to be delivered has an active PDP context (step 412). The presence of an active PDP context indicates that the GGSN has a delivery address or GTP tunnel for the SGSN serving the mobile. --

Please replace the first paragraph that begins on page 32, line 10, as follows:

A5  
-- While the invention is susceptible to various modifications and alternative forms, specific embodiments thereof have been shown by way of example in the drawings and detailed description. It should be understood, however, that the drawings and detailed description thereto are not intended to limit the invention to the particular form disclosed, but on the contrary, the invention is to cover all modifications, equivalents and alternatives falling within the spirit and scope of the present invention as defined by the claims. As may be seen, the described embodiments may be modified in many different ways without departing from the scope or teachings of the invention. ~~For example, any combination of the described methods may be combined to create an inventive system that reduces the amount of unwanted calls.~~ The mobile terminal 220 as well as the GGSN and SGSN of the present invention may be formed with state machines in hardware, out of processors based systems that execute stored software instructions, or a combination thereof. In general, any system that defines the novel operational logic defined herein this application is included as a part of the present invention.